

Report No.: 01

Test Time: 2015/11/30 15:20

Luminaire Property

Luminaire Manufacturer: Acolyte

Luminaire Category: RB245.5RGBW-White

Number of Lamps: 1

Luminous Width (mm): 12

Voltage: 24.0 V

Power: 2.70 W

Luminaire Description: RB245.5RGBW-White

Luminous Length (mm): 500

Luminous Height (mm): 5

Current: 0.112 A

Power Factor: 1.000

Photometric Results

CIE Class: Direct

Measurement Flux: 228.5 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(50%): H116.6

Vertical Diffuse Angle(50%): V114.9

Luminaire Efficacy Rating (LER): 85

Max. Intensity: 76.38 cd

Total Rated Lamp Lumens: 228.5 lm

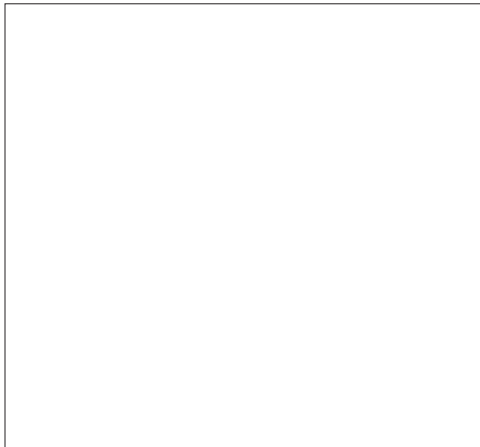
Efficiency: 100%

Upward Ratio: 1%

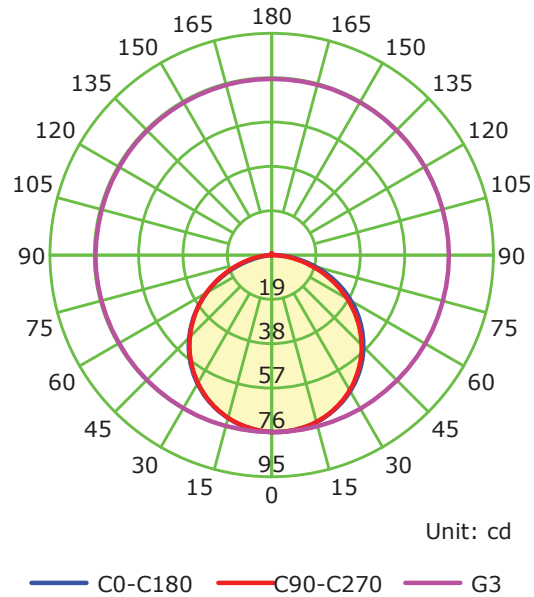
Central Intensity: 76.19 cd

Pos of Max. Intensity: H30 V3

Picture Of Luminaire



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 10.0

Test Lab: ACOLYTE

Test Type: TYPE C

Temperature: 24°C

Operator:

Gamma Plane (°):0.0-180.0:1.0

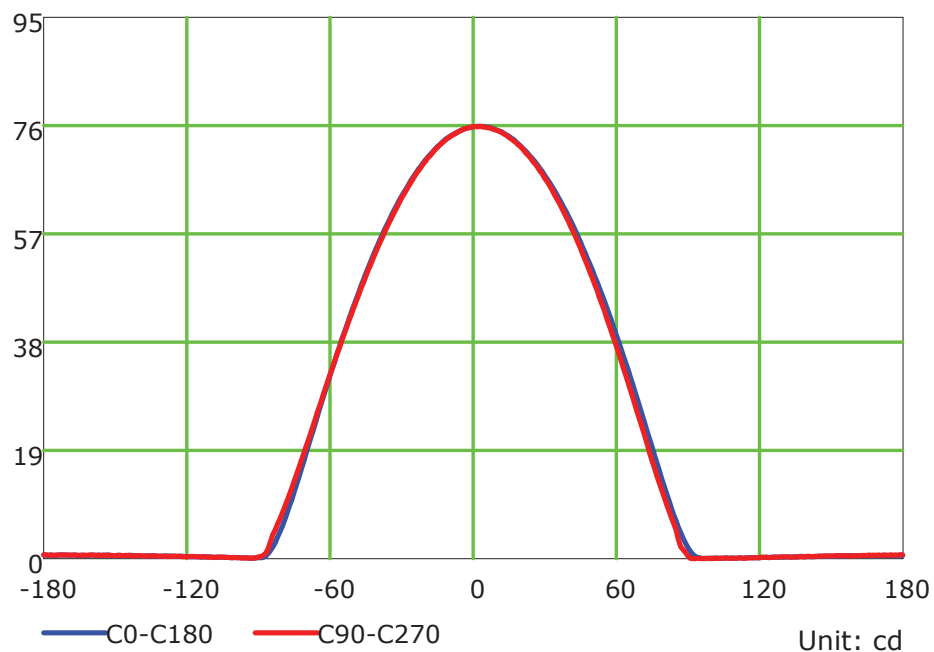
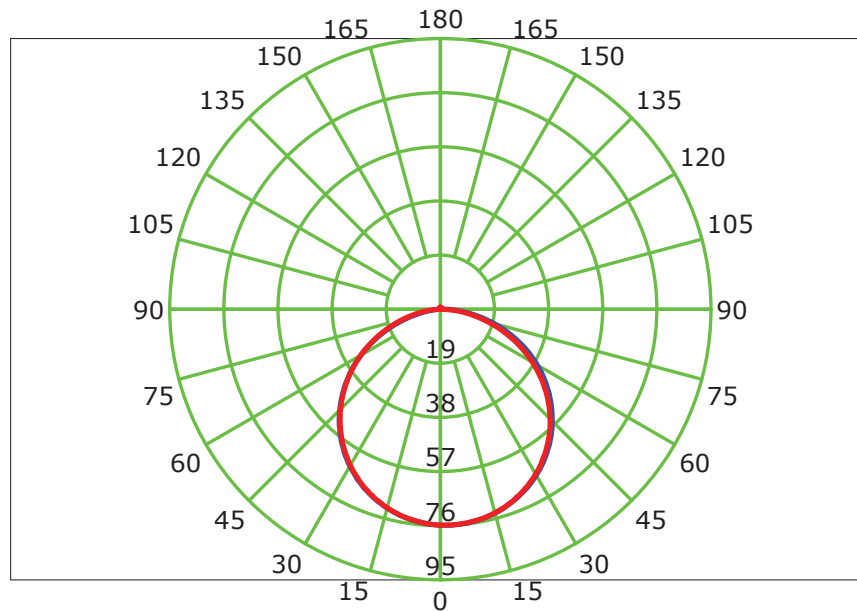
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

Luminous Intensity Distribution Curve



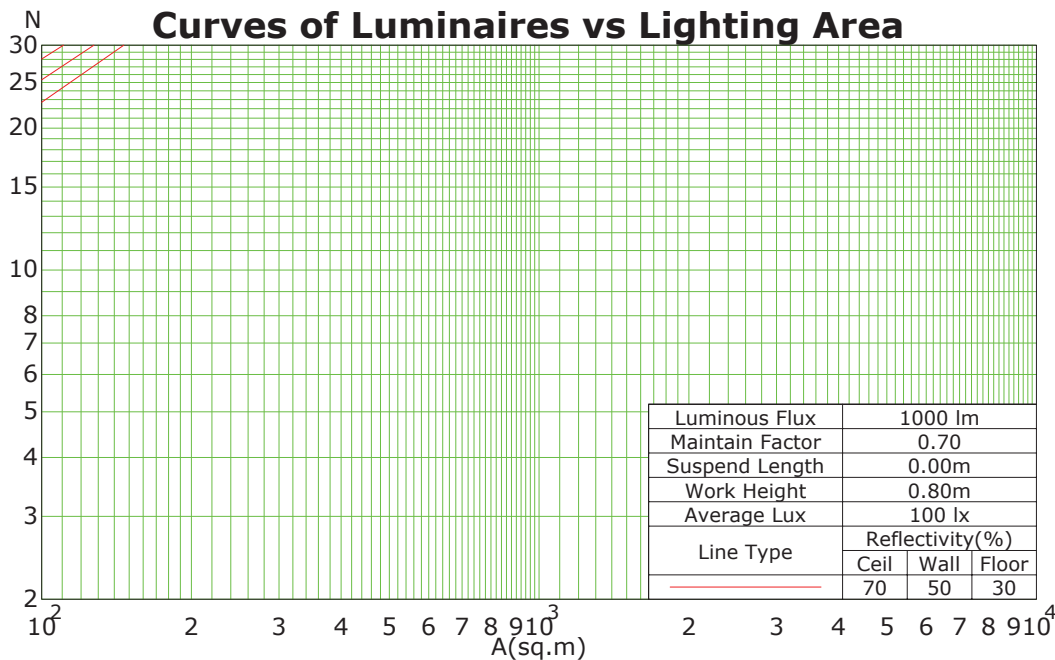
C Plane (°):0.0-360.0: 10.0
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Test Type: TYPE C
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Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	56	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	42	35	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

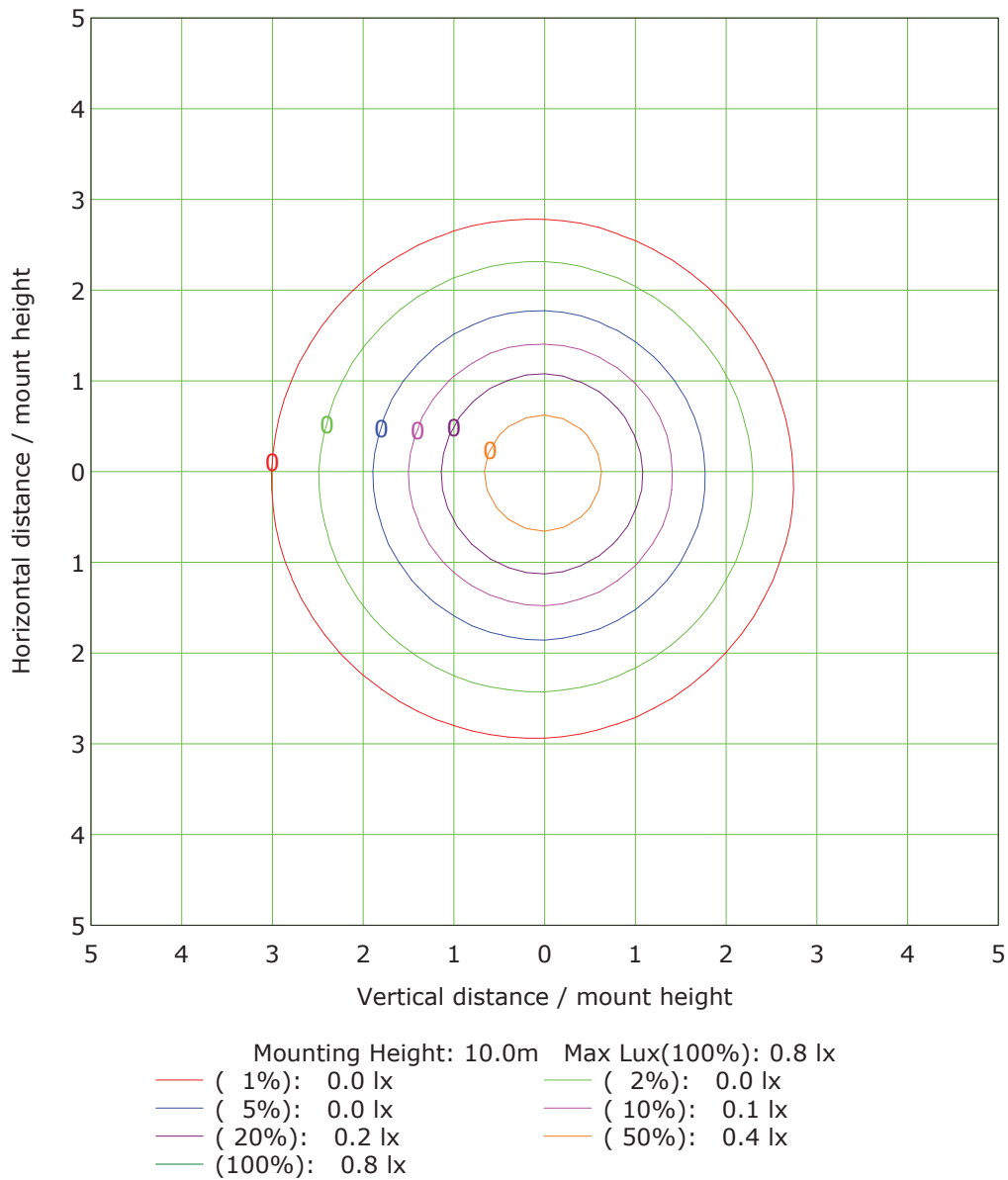
Spacing Criteria (0-180): 1.28
Spacing Criteria (90-270): 1.27
Spacing Criteria (Diagonal): 1.40



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Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

IsoLux Plot

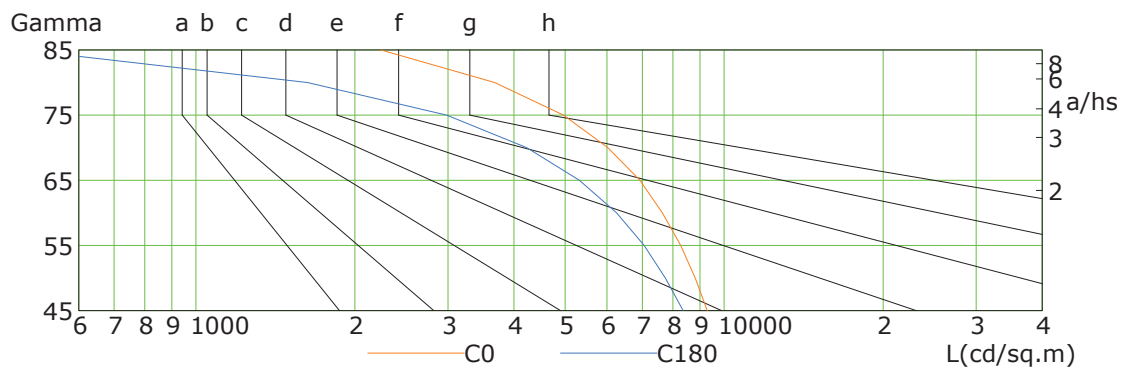
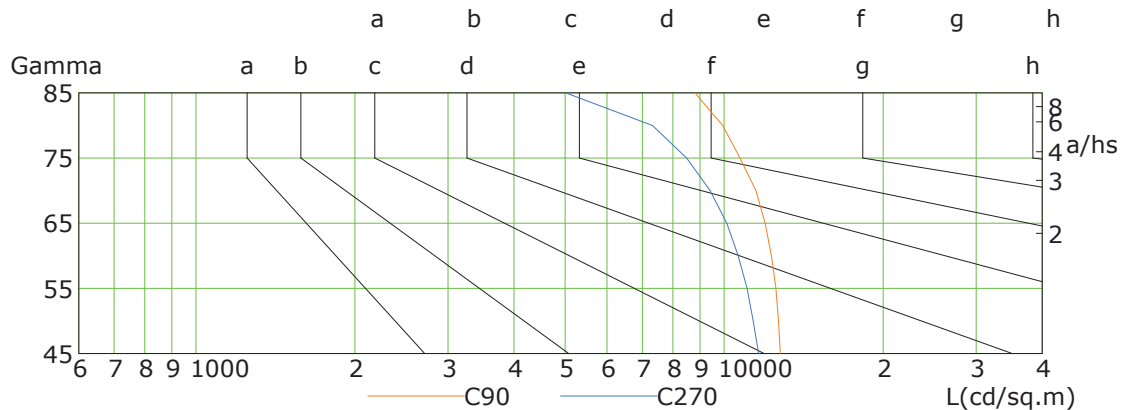


C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

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Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

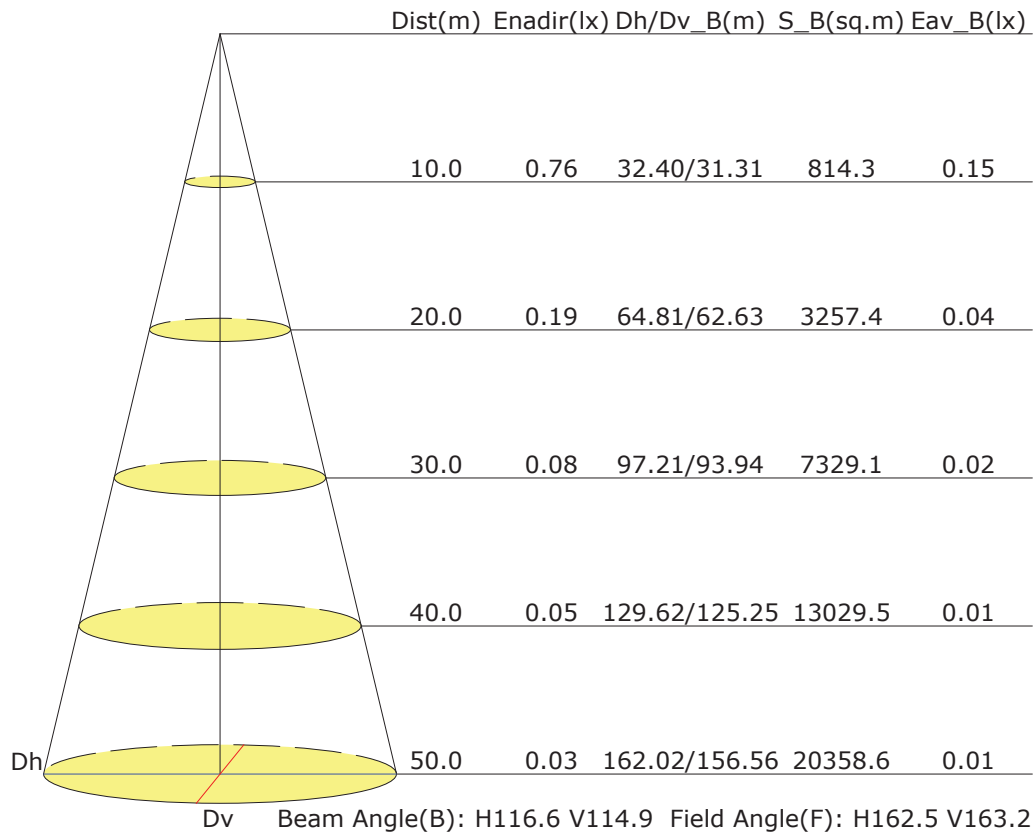


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	9291	8813	8276	7638	6927	6023	4965	3679	2240
C90	12775	12673	12534	12290	11953	11487	10715	9937	8804
C180	8364	7739	7057	6255	5321	4231	2982	1627	471
C270	11617	11351	11050	10633	10115	9405	8492	7312	5011

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Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

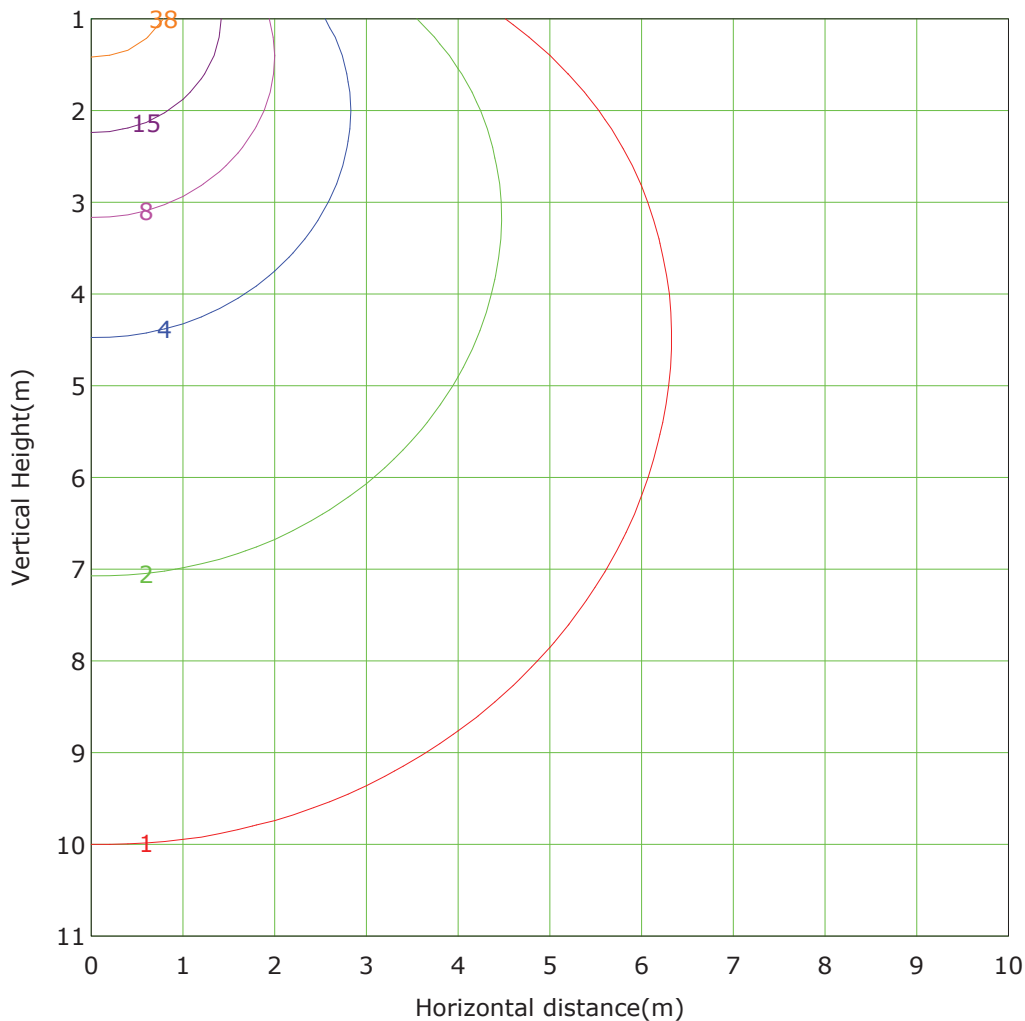
Illuminance at a Distance



C Plane (°):0.0-360.0: 10.0
Test Lab: ACOLYTE
Test Type: TYPE C
Temperature: 24°C
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 76.2 lx

— (1%): 0.8 lx	— (2%): 1.5 lx
— (5%): 3.8 lx	— (10%): 7.6 lx
— (20%): 15.2 lx	— (50%): 38.1 lx
— (100%): 76.2 lx	

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Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:



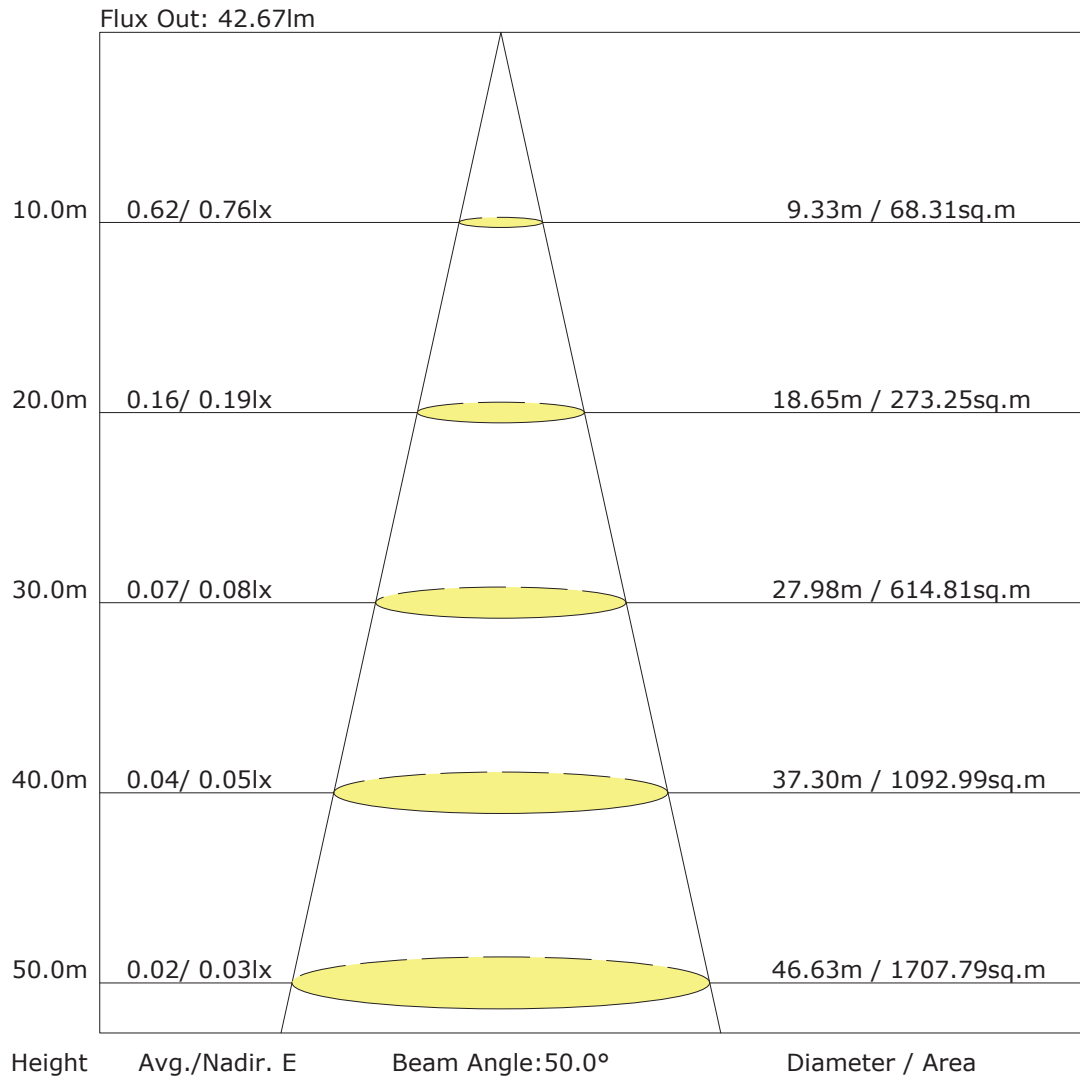
Area Flux Table

Unit: lm																				
Horizontal plane																				
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	$\int_{-90}^{90} \text{Flux(T)} \text{d}\theta$	$\int_{-90}^{90} \text{Flux(E)} \text{d}\theta$
Vertical plane	-90	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.0	0.1
	-80	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.0	3.6	3.2
	-70	0.0	0.0	0.1	0.2	0.3	0.5	0.6	0.7	0.8	0.8	0.8	0.7	0.6	0.4	0.3	0.2	0.1	6.9	6.8
	-60	0.0	0.0	0.1	0.3	0.5	0.7	0.9	1.1	1.1	1.2	1.1	1.0	0.8	0.6	0.4	0.2	0.1	10.2	10.2
	-50	0.0	0.1	0.2	0.4	0.7	0.9	1.2	1.4	1.5	1.5	1.4	1.3	1.1	0.8	0.5	0.3	0.1	13.3	13.3
	-40	0.0	0.1	0.2	0.5	0.8	1.1	1.4	1.7	1.8	1.8	1.7	1.5	1.3	0.9	0.6	0.3	0.1	16.0	16.0
	-30	0.0	0.1	0.3	0.6	0.9	1.3	1.6	1.9	2.0	2.0	1.9	1.7	1.4	1.1	0.7	0.4	0.1	18.1	18.1
	-20	0.0	0.1	0.3	0.6	1.0	1.4	1.8	2.0	2.2	2.2	2.1	1.8	1.5	1.1	0.8	0.4	0.2	19.6	19.5
	-10	0.0	0.1	0.3	0.7	1.1	1.5	1.8	2.1	2.3	2.3	2.2	1.9	1.6	1.2	0.8	0.4	0.2	20.4	20.4
	0	0.0	0.1	0.3	0.7	1.1	1.5	1.9	2.1	2.3	2.3	2.2	1.9	1.6	1.2	0.8	0.4	0.2	20.6	20.6
Vertical plane	10	0.0	0.1	0.3	0.7	1.1	1.5	1.8	2.1	2.2	2.2	2.1	1.9	1.6	1.2	0.8	0.4	0.2	20.1	20.1
	20	0.0	0.1	0.3	0.7	1.1	1.5	1.8	2.1	2.2	2.2	2.1	1.9	1.6	1.2	0.8	0.4	0.2	18.9	18.9
	30	0.0	0.1	0.3	0.6	1.0	1.4	1.7	2.0	2.1	2.1	2.0	1.8	1.5	1.1	0.7	0.4	0.1	17.0	17.0
	40	0.0	0.1	0.3	0.5	0.9	1.2	1.5	1.8	1.9	1.9	1.8	1.6	1.3	1.0	0.7	0.4	0.1	14.6	14.5
	50	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.5	1.6	1.7	1.6	1.4	1.1	0.9	0.6	0.3	0.1	11.6	11.5
	60	0.0	0.0	0.2	0.3	0.6	0.8	1.0	1.2	1.3	1.3	1.3	1.1	0.9	0.7	0.5	0.3	0.2	8.1	8.0
	70	0.0	0.0	0.1	0.2	0.4	0.5	0.7	0.8	0.9	0.9	0.9	0.8	0.7	0.5	0.3	0.2	0.1	4.6	4.4
	80	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.4	0.3	0.2	0.1	0.0	1.6	0.6
	90	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.3	226
	Flux(T)	0.1	1.0	3.3	7.0	11.5	16.0	20.2	23.4	25.2	25.5	24.3	21.7	17.9	13.4	8.9	4.8	1.8	0.3	226
Flux(E)	0.0	0.7	3.1	6.8	11.3	15.8	20.0	23.2	25.0	25.4	24.2	21.5	17.7	13.3	8.7	4.7	1.7	0.1	223	

C Plane (°):0.0-360.0: 10.0
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Test Type: TYPE C
Temperature: 24℃
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 9.028 m
Humidity: 60%
Inspector:

The Average Illuminance Effective Figure



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Operator:

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Inspector:

UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	25.8	27.5	26.2	27.8	28.2	24.6	26.2	25.0	26.6	26.9
3H	27.9	29.4	28.3	29.7	30.1	26.2	27.7	26.6	28.0	28.4
4H	28.7	30.1	29.1	30.5	30.9	26.7	28.1	27.1	28.5	28.9
6H	29.3	30.6	29.8	31.0	31.4	27.1	28.4	27.5	28.8	29.2
8H	29.6	30.8	30.0	31.2	31.7	27.2	28.4	27.6	28.8	29.3
12H	29.8	31.0	30.2	31.4	31.8	27.2	28.4	27.7	28.8	29.3
X=4H Y=2H	26.3	27.7	26.7	28.1	28.5	25.3	26.7	25.7	27.0	27.4
3H	28.5	29.7	28.9	30.1	30.5	27.0	28.2	27.5	28.6	29.1
4H	29.4	30.5	29.9	30.9	31.4	27.7	28.8	28.1	29.2	29.7
6H	30.2	31.1	30.7	31.6	32.1	28.2	29.1	28.6	29.6	30.0
8H	30.5	31.4	31.0	31.8	32.3	28.3	29.2	28.8	29.6	30.1
12H	30.8	31.5	31.2	32.0	32.5	28.4	29.2	28.9	29.7	30.2
X=8H Y=4H	29.6	30.5	30.1	31.0	31.4	28.0	28.9	28.5	29.3	29.8
6H	30.5	31.2	31.0	31.7	32.2	28.6	29.3	29.1	29.8	30.3
8H	30.8	31.5	31.4	32.0	32.5	28.8	29.4	29.3	30.0	30.5
12H	31.2	31.7	31.7	32.2	32.8	28.9	29.5	29.5	30.0	30.6
X=12H Y=4H	29.6	30.4	30.1	30.9	31.4	28.0	28.8	28.5	29.3	29.8
6H	30.5	31.2	31.0	31.6	32.2	28.7	29.3	29.2	29.8	30.3
8H	30.9	31.5	31.4	32.0	32.6	28.9	29.5	29.4	30.0	30.6

Calculate in accordance with CIE 190:2010

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Test Lab: ACOLYTE
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